



Georgia Institute of Technology

Visit by Chancellor Erroll B. Davis, Jr.
May 2, 2006



Georgia Tech: Recognized for excellence

- Among top 10 public universities in the nation
- Among top 5 engineering schools in the nation
- Nationally ranked for computing, architecture, management, and specific science and liberal arts programs

Georgia Tech vision and mission

Georgia Tech will define the technological research university of the 21st century and educate the leaders of a technologically driven world.



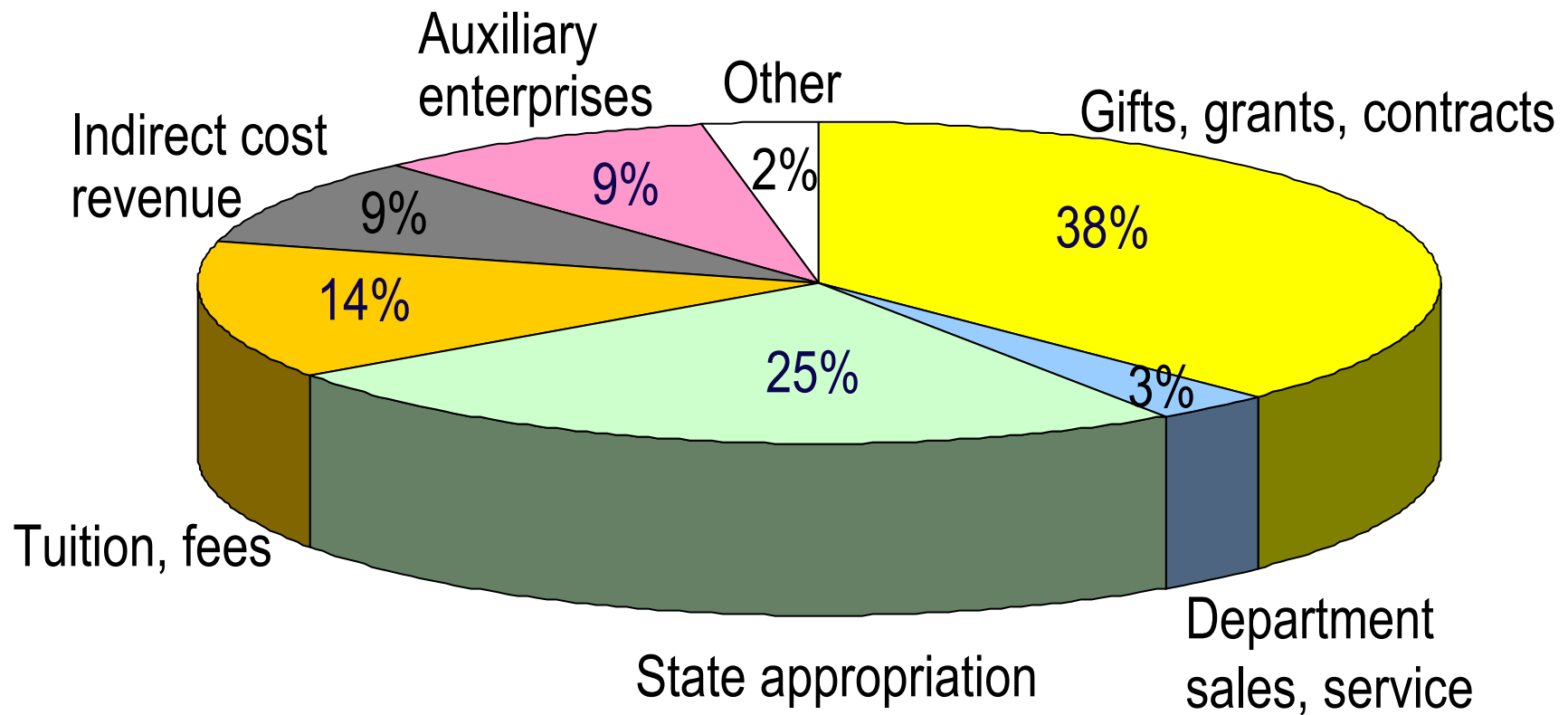
Achieving the vision

- Excellence and innovation
- Best students, faculty, staff
- Leading-edge facilities, services
- Quality live-work-play campus
- Distinctive sense of place
- Community and industry collaboration
- Optimal technology transfer



Sources of Institute funding

\$919.4 million anticipated for FY 2005-06



Students

17,100 students enrolled:

- 11,800 under-graduates
- 35% of the student body is minority
- 5,300 graduate students
- Added 4,150 students in the past 10 years

Georgia Tech is a national leader in graduating engineers, including minorities & women.





Students excel

- Average SAT score of 1340 (among nation's top 5 public universities)
- 100 National Merit Scholars (3rd among all public universities)
- 6 National Achievement Scholars (7th among all public universities)
- 38 prestigious scholarships (Rhodes, Truman, Marshall, etc.) since 1993
- 106 student athletes (22%) named to ACC Academic Honor Roll

Faculty

- 940 academic faculty
- 1,100 research faculty
- 200 post-doctoral fellows
- 115 endowed chairs and professorships
- 30 National Academy members (7th in the nation)
- 107 NSF CAREER Awards (2nd in the nation)
- 7 PECASE Awards (among top 10)



Academic programs



Six colleges:

Architecture

Computing

Engineering

Ivan Allen College of Liberal Arts

Management

Sciences

Interdisciplinary degrees:

Biomedical engineering

Bioinformatics

Prosthetics and orthotics

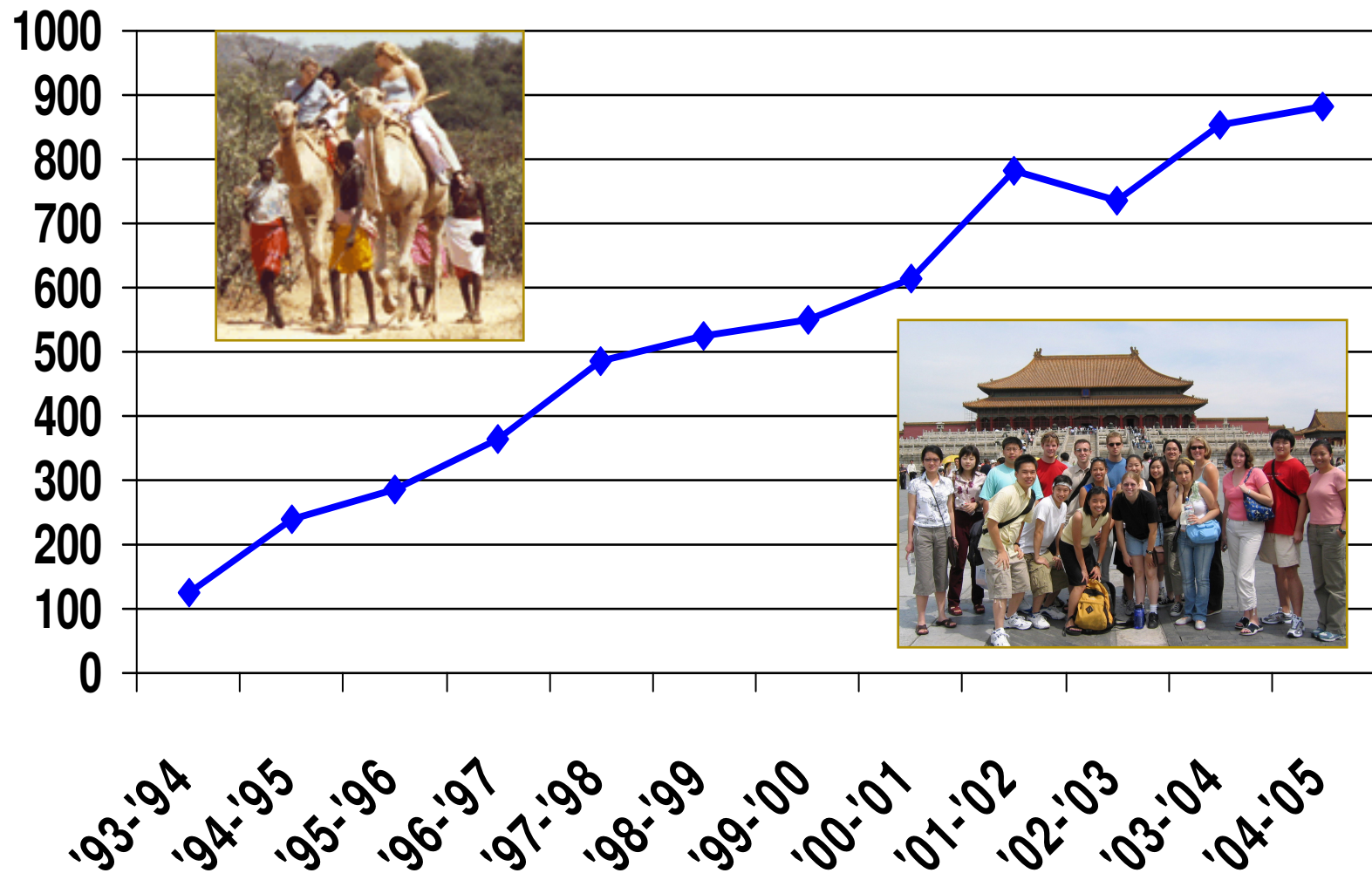
Human-computer interaction

Quantitative computational finance

Digital media



One-third of students study abroad



Four campuses on three continents



Georgia Tech Atlanta



Georgia
Tech
Lorraine



Georgia Tech Savannah



Georgia
Tech
Singapore

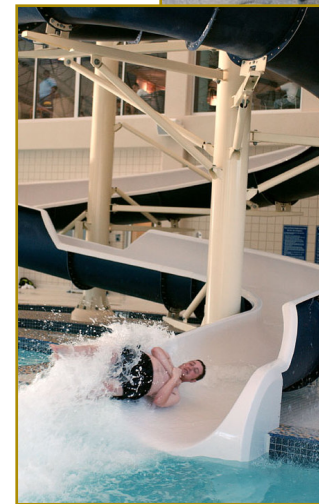
Building a quality, sustainable campus

3.5 million gross sq ft of
new, renovated space



Building excellence

- 82% of construction during past 10 years funded by Georgia Tech; 18% from state funds
- 7 major awards won by Technology Square, including Development of the Year from the Urban Land Institute
- 3 major awards won by the Campus Rec Center



Technology Square

- Built on vacant lots, abandoned property
- Models sustainability
- Atlanta's technology nexus:
 - ▷ Incubates new companies
 - ▷ Houses Georgia Tech's business programs
 - ▷ Space for companies that want to be near campus
- Shops and cafes invigorate the neighborhood



On the drawing board:

Nanotechnology Research Center

- 188,000 gross sq ft facility
- 30,000 sq ft of cleanroom space
- Nation's first cleanroom facility to be deliberately designed to serve nanomedicine, biotechnology
- Three “cleanest” classes of labs (10, 100, 1000)
- Flexible configuration will meet differing research needs



Sustainable
technology



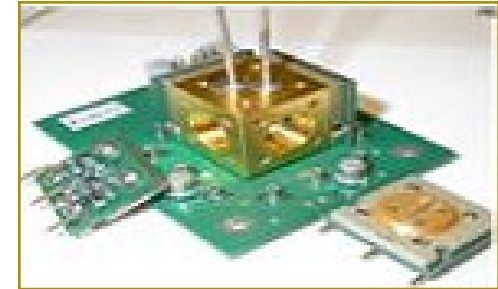
Research thrusts



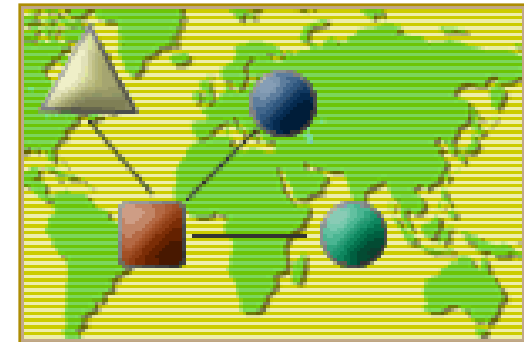
Nanotechnology



Biotechnology/
nanomedicine



Microelectronics/
telecommunications



Logistics



Photonics/optics

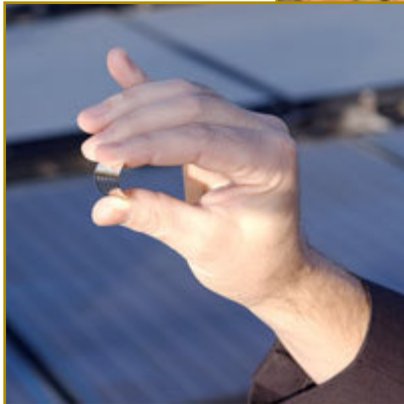


Manufacturing

Emerging research thrusts



Energy



Electronic
health
systems



Predictive
medicine



16 National Centers of Excellence



➤ Microelectronics Packaging Research Center



➤ Center for Organic Photonics & Electronics

➤ Center for the Engineering of Living Tissues

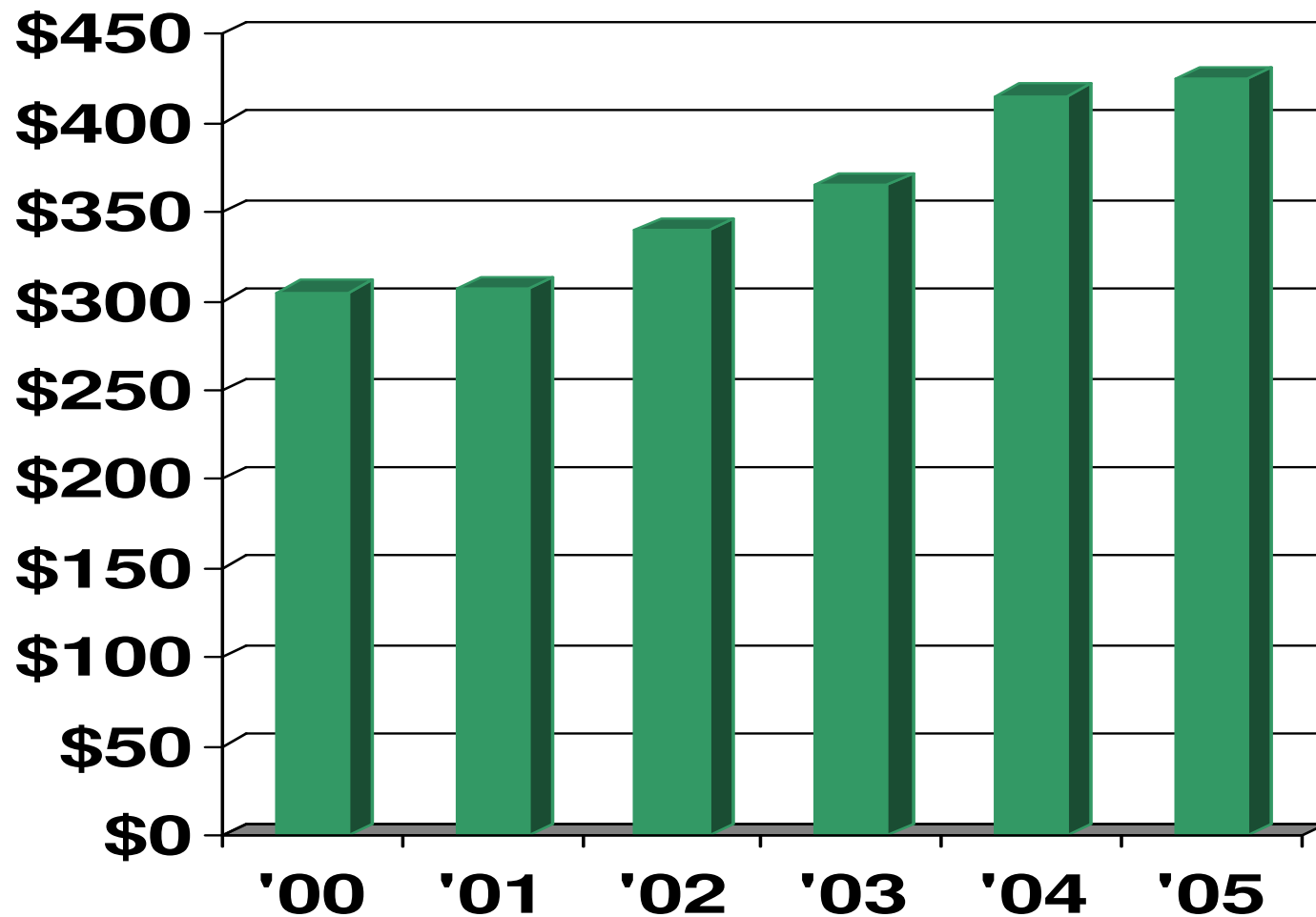


➤ Mid-America Earthquake Center

➤ Center for Environmentally Responsible Solvents and Processes

Annual research expenditures

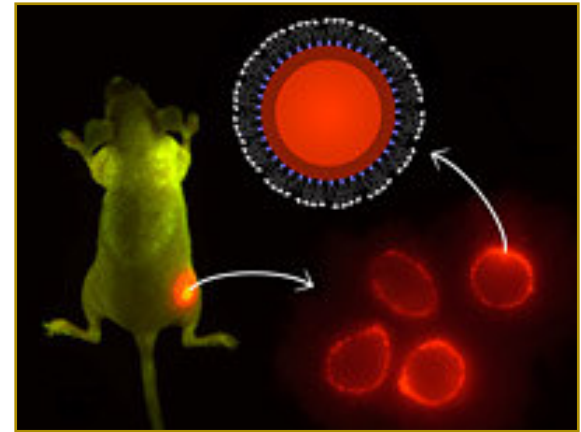
(in millions)



At the leading edge

- Research expenditures doubled during past decade
- GIT ranks second in the nation in engineering R&D
- One of 7 National Centers of Cancer Nanotechnology Excellence (\$20 million)
- Recently attracted Jeff Skolnik, world-renowned computational biologist, and team of 20 to Institute for Systems Biology

Identifying and attacking individual cancer cells.

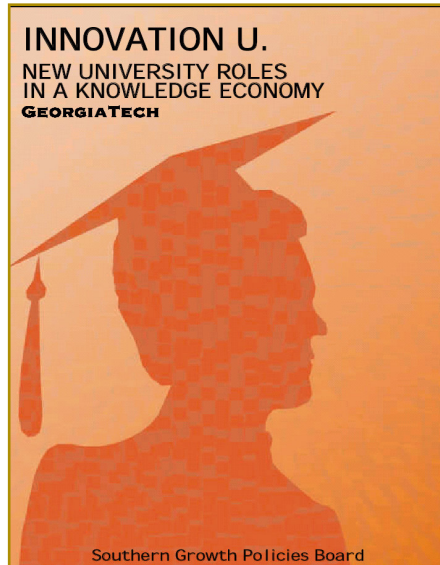


“The Razor” at the Institute for Systems Biology is the world’s 41st fastest computer.



Incorporating students

- Research is a learning process and enriches the experience of our students
- 43% of GT undergraduates participate in research for academic credit
- 52% of GT graduate students are supported by funding from sponsored research



Economic development

“Virtually every combination of industry relationship or economic development activity can be found at Georgia Tech, and in a very real sense the school is an operating partner with Georgia state government.... **Perhaps more than any other research university in North America, economic development is an integral, critical component of the mission of the Georgia Institute of Technology,** and this has been true from its very inception.”

Southern Growth Policies
Board *Innovation U* study

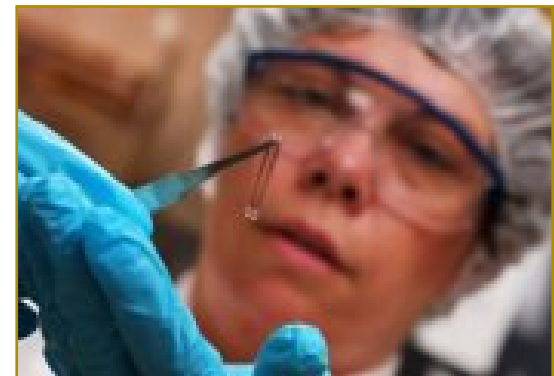
Commercialization at Tech

FY 2005

- 324 invention disclosures filed
- 65 patents filed
- 43 patents issued (9th in the nation)
- 9 new start-up companies
- 24 start-up companies in past 2 years.



Radatec



CardioMEMS

Incubating new companies



Advanced Technology
Development Center



Technology Enterprise Park



Tech's national presence

- National Innovation Initiative
- Sam Nunn Policy Forum
- National Lambda Rail
- National Nanotechnology Infrastructure Network
- President's Council of Advisors on Science & Technology, National Science Board, National Academy of Engineering